OWNERS MANUAL

932000 SERIES
COMPACT SNO- THROS

MODEL NO. 932001 -2.7 HP SNO-THRO
SERIAL NUMBER 010501 & UP

MODEL NO. 832002 - 20"
SNO-THRO ATTACHMENT
SERIAL NUMBER 000101 & UP

MODEL NO. 832003 - 24"
SNO-THRO ATTACHMENT
SERIAL NUMBER 000101 & UP

MODEL NO. 932004 - 3.5 HP SNO-THRO
SERIAL NUMBER 000101 & UP

MODEL NO. 932006 - 5 HP SNO-THRO
SERIAL NUMBER 000101 & UP

MODEL NO. 932007 - 5 HP TRACTOR
SERIAL NUMBER 000101 & UP

A MESSAGE TO THE ARIENS CUSTOMER...

Welcome to the world of Ariens equipment. We are pleased that you have selected Ariens and sincerely believe you have purchased the best equipment available. The care you give your new Ariens equipment will greatly determine the satisfaction and service life you will obtain from it. Use this manual and the engine manual supplied, as your guide. By observing the instructions and suggestions in these manuals, your Ariens equipment will serve you well for many years.

Your Ariens dealer will be happy to supply any service or advice which may be required to keep your Ariens equipment operating at peak efficiency. He stocks genuine Ariens parts and lubricants; manufactured with the same precision and skill as the original equipment. His factory trained staff is kept well informed on the best methods of servicing Ariens equipment and is ready and able to serve you. If engine repairs or services are required, they can be obtained from an Ariens dealer or from an authorized engine manufacturer's service station.

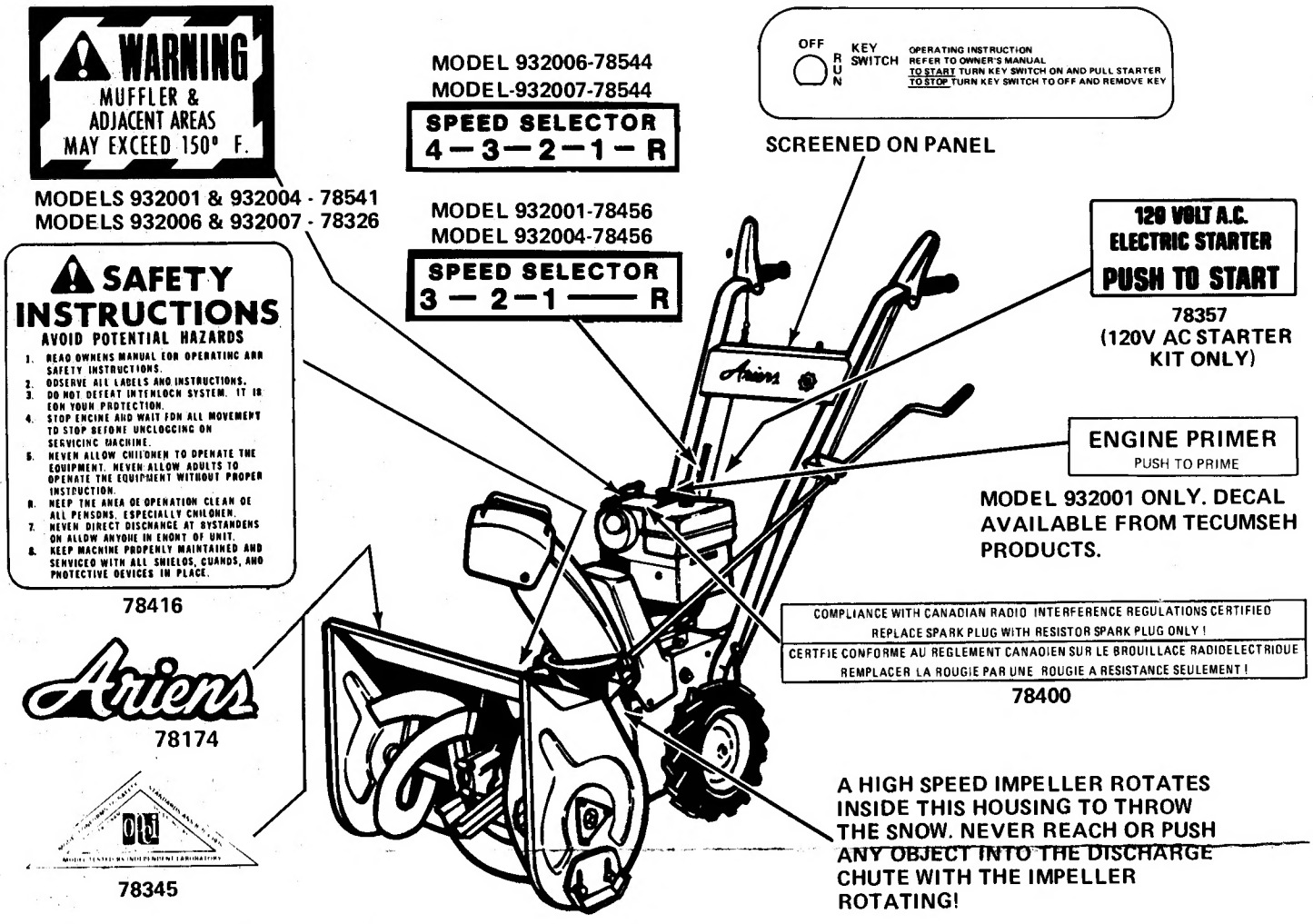
Should service be required on equipment, be prepared to supply the serviceman with the Model Number and Serial Number of the equipment and the engine, as well as a full description of the trouble encountered.

Finally, your local Ariens dealer is in the best position to answer your questions and service equipment. If for some reason he is unable to satisfy your requirements, assistance is always available from the Consumer Services, Ariens Company, Brillion, Wisconsin 54110. Telephone: (414) 756-2141.

Ariens **COMPANY BRILLION, WISCONSIN 54110**

PART NUMBER 032078

PRINTED IN U.S.A.



ORDER DECALS BY ARIENS PART NUMBER SHOWN

INSTRUCTIONS FOR SAFE OPERATION

IMPORTANT

Safe Operation Practices for Snow Throwers

Training

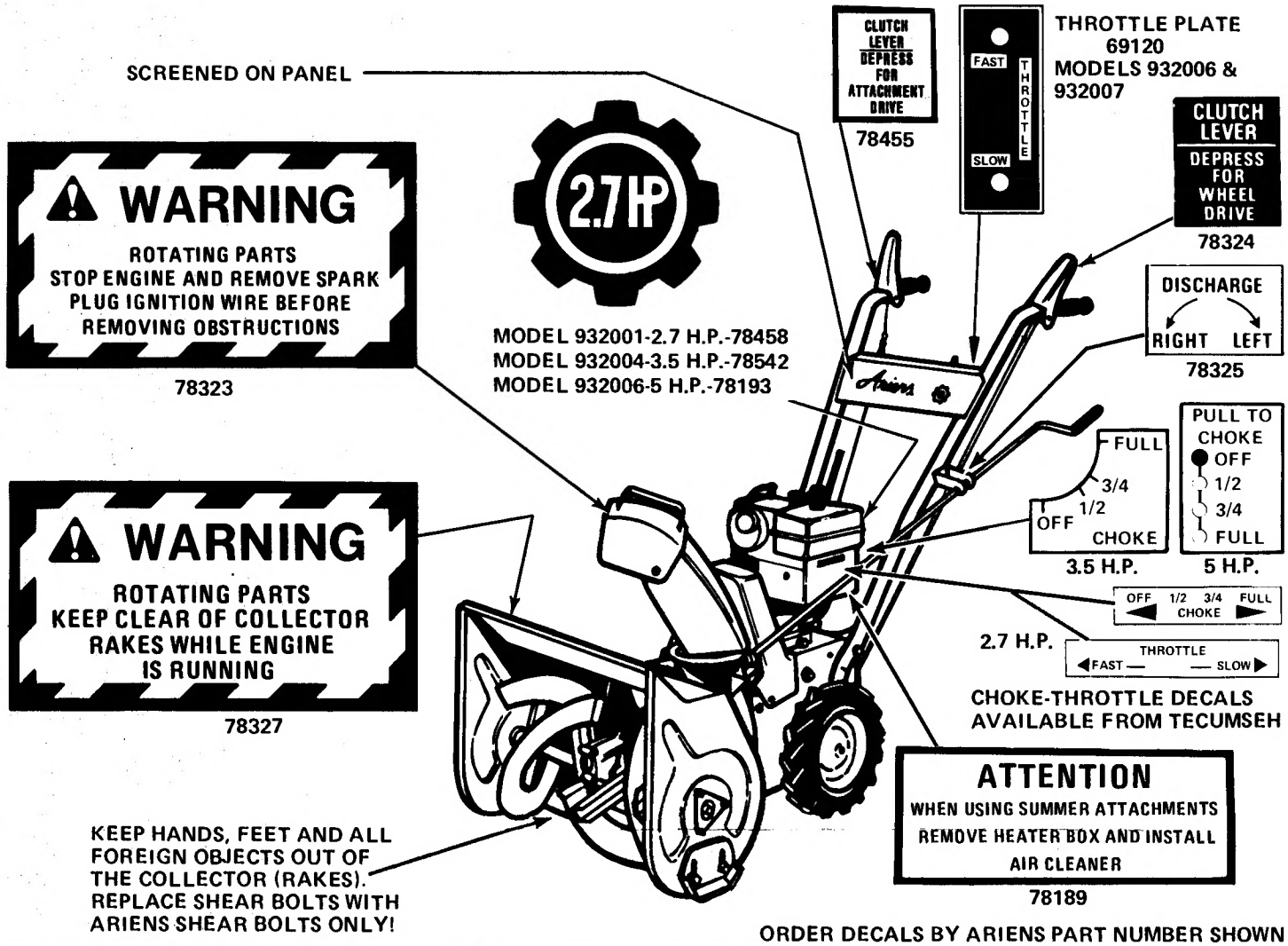
1. Read the owner's manual carefully. Be thoroughly familiar with the controls and the proper use of the equipment. Know how to stop the unit and disengage the controls quickly.
2. Never allow children to operate the equipment. Never allow adults to operate the equipment without proper instruction.
3. Keep the area of operation clear of all persons, particularly small children, and pets.
4. Exercise caution to avoid slipping or falling, especially when operating in reverse.

Preparation

1. Thoroughly inspect the area where the equipment is to be used and remove all doormats, sleds, boards, wires, and other foreign objects.
2. Disengage all clutches and shift into neutral before starting the engine (motor).
3. Do not operate the equipment without wearing adequate winter outer garments. Wear footwear which will improve footing on slippery surfaces.
4. Handle fuel with care; it is highly flammable.
   a. Use an approved fuel container.
   b. Never add fuel to a running engine or hot engine.
   c. Fill fuel tank outdoors with extreme care. Never fill fuel tank indoors.
   d. Replace gasoline cap securely and wipe up spilled fuel.
5. Use a grounded three-wire plug-in for all units with electric drive motors or electric starting motors.
6. Adjust the collector housing height to clear gravel or crushed rock surface.
7. Never attempt to make any adjustments while the engine is running (except where specifically recommended by manufacturer).
8. Let engine and machine adjust to outdoor temperatures before starting to clear snow.

Operation

1. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.
2. Exercise extreme caution when operating on or crossing gravel drives, walks, or roads. Stay alert for hidden hazards or traffic. Do not carry passengers.
3. After striking a foreign object, stop the engine, remove the wire from the spark plug, thoroughly inspect the snow thrower for any damage, and repair the damage before re-starting and operating the snow thrower.



BE AWARE OF SAFETY DECALS

4. If the unit should start to vibrate abnormally, stop the engine and check immediately for the cause. Vibration is generally a warning of trouble.
5. Stop the engine whenever you leave the operating position, before unclogging the collector/impeller housing or discharge guide, and when making any repairs, adjustments, or inspections.
6. When clearing, repairing, or inspecting, make certain the collector/impeller and all moving parts have stopped. Disconnect the spark plug wire,
7. Do not run the engine indoors, except when starting the engine and for transporting the snow thrower in or out of the building. Open the outside doors; exhaust fumes are dangerous.
8. Do not clear snow across the face of slopes. Exercise extreme caution when changing direction on slopes. Do not attempt to clear steep slopes.
9. Never operate the snow thrower without proper guards, plates, or other safety protective devices in place.
10. Never operate the snow thrower near glass enclosures, automobiles, window wells, drop-offs, etc, without proper adjustment of the snow discharge angle. Keep children and pets away.
11. Do not overload the machine capacity by attempting to clear snow at too fast a rate.
12. Never operate the machine at high transport speeds on slippery surfaces. Use care when backing.
13. Never direct discharge at bystanders or allow anyone in front of the unit.
14. Disengage power to the collector/impeller when snow thrower is transported or not in use.
15. Use only attachments and accessories approved by the manufacturer of snow thrower (such as wheel weights, counterweights, cabs, etc).
16. Never operate the snow thrower without good visibility or light. Always be sure of your footing, and keep a firm hold on the handles. Walk; never run.

Maintenance and Storage

1. Check shear bolts, engine mounting bolts, etc, at frequent intervals for proper tightness to be sure the equipment is in safe working condition.
2. Never store the machine with fuel in the fuel tank inside a building where open flame or sparks are present. Allow the engine to cool before storing in any enclosure.
3. Always refer to owner's manual instructions for important details if the snow thrower is to be stored for an extended period.
4. Run the machine a few minutes after throwing snow to prevent freeze-up of the collector/impeller.

CONTROLS

(1) SPEED SELECTOR: Sets speed of tractor. Change speed or shift to reverse.

(2) THROTTLE: Controls engine speed. Models 932006 and 932007 have throttle located on dash panel.

(3) TRACTOR CLUTCH LEVER: Activates tractor drive. Depress to drive tractor, release to stop.

(4) HAND CRANK: Turns discharge chute 210° so snow can be thrown away from area being cleared.

(5) ATTACHMENT CLUTCH: Activates rake and impeller. Depress to activate. Release to stop.

(6) CHOKE: Move choke to choke position to start engine. Model 932001 has choke on side of heater box. Model 932004 has choke located on top of carburetor heater box. Model 932006 and 932007 have choke at rear of heater box.

(7) KEY SWITCH: Prevents unauthorized use. Turn on to run, turn off to stop.

(8) PRIMER: (Model 932001 only.) Push four times to prime engine with fuel prior to starting.

(9) STARTER BUTTON: The starter button (9) is found on all units equipped with electric starters. Plug the 120 volt cord into the starter block; plug the opposite end into a convenient 120 volt outlet. Push the starter button to start the engine.

CAUTION:
A HIGH SPEED IMPELLER ROTATES INSIDE THIS HOUSING TO THROW THE SNOW. NEVER REACH OR PUSH ANY OBJECT INTO THE DISCHARGE CHUTE WITH THE IMPELLER ROTATING.

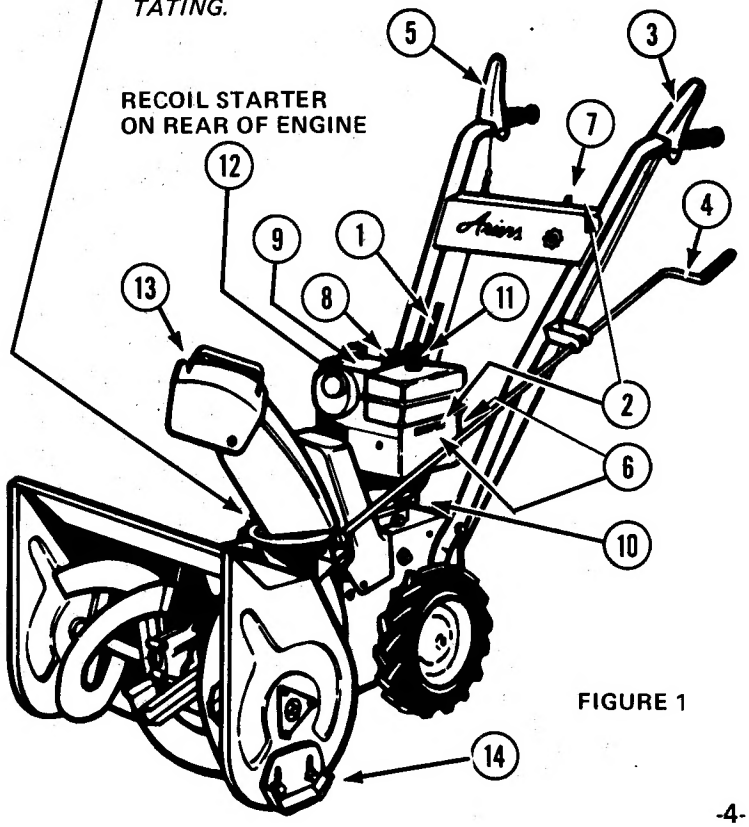


FIGURE 1

OPERATION

BEFORE STARTING

Fill crankcase (10) with Ariens Sno-Thro oil 5W-20 when using Sno-Thro.

Use Ariens Gard-N-Yard oil MS classification SAE-30 oil when using lawn attachments.

Refer to Engine Manual for appropriate crankcase oil substitutes.

Fill fuel tank (11) with fresh, clean, unleaded automotive gasoline. Do not mix oil with gasoline. (Leaded "regular" grade gasoline is an acceptable substitute).

Make visual check with regards to safety precautions, obstructions, lubrication and maintenance.

NOTE: Check for frozen fan before starting engine. These problems arise in wet, slushy snow. If the fan is frozen, it is best freed by thawing in a heated garage or other building. The best solution is preventing freezing. Allow the engine to run for a short time before shutting down to throw the remaining slush and water out of the blower housing and thus prevent freezing of the fan. After engine is stopped move choke lever to full choke and throttle control to fast and leave in this position.

TO START

Turn key (7) to "Run" position.

Move choke lever (6) to "FULL" choke position.

Move throttle (2) to "FAST" position. On Model 932001, push primer bulb (8) four times.

Pull recoil starter (12) to start engine. If the machine is equipped with an electric starter attach the starter cable to the starter switch, plug the cable into any convenient 120 volt electrical outlet - and depress the starter button to crank and start the engine. Follow the starter manufacturers instructions supplied with the starter.

Move choke (6) to 3/4 choke, then to 1/2 choke, then to "OFF".

TO TRANSPORT

Move speed selector (1) to desired speed.

Press down on handlebars to raise front of Sno-Thro slightly off the ground.

Depress tractor clutch lever (3) to transport unit.

TO OPERATE

Move deflector (13) to desired height.

Turn hand crank (4) to direct discharge chute.

Move throttle (2) to "FAST" speed.

Move speed selector (1) to desired speed.

Depress attachment clutch (5) to in position.

Depress tractor clutch lever (3) to move tractor. Note that the clutch lever on BOTH handelbars must be depressed to operate the machine and blow snow.

Speed of the machine is controlled by the throttle and speed selector.

TO STOP

Release tractor clutch lever (3). Allow the Sno-Thro to run for a short time to throw out slush and water and prevent freezing of the fan.

Release attachment clutch (5).

Turn key (7) to "Off" position.

Place choke (6) in "FULL" choke position. Place throttle control (2) in "FAST" position.

MAINTENANCE

Ariens Company recommends that you have adjustments made by your local Ariens dealer. He has the tools and know-how to properly perform these maintenance adjustments which may be required to keep the Sno-Thro operating at peak efficiency. The Sno-Thro is equipped with the finest quality engine obtainable. However, should servicing be required, it can be obtained from an Ariens dealer or an authorized engine manufacturer's service station. Should you decide to make adjustments on your Sno-Thro yourself, Ariens recommends that you call your dealer for the answers to any questions that might arise in performing this work.

SHEAR BOLT REPLACEMENT

Occasionally a small object may enter the collector and jam the rakes. When this occurs, the shear bolts securing the rakes to the shaft will break and allow the rake to turn freely on the shaft preventing damage to the gear drive. When this happens, turn off the engine, remove wire from spark plug, remove the broken shear bolt and replace with a new ARIENS shear bolt. Use of any other type of shear bolt may result in severe damage to the machine. USE ONLY ARIENS SHEAR BOLTS FOR REPLACEMENT. Each time a shear bolt is replaced (and once each year) the rake should be rotated on the shaft and the shaft oiled. Oil shaft through shear bolt holes.

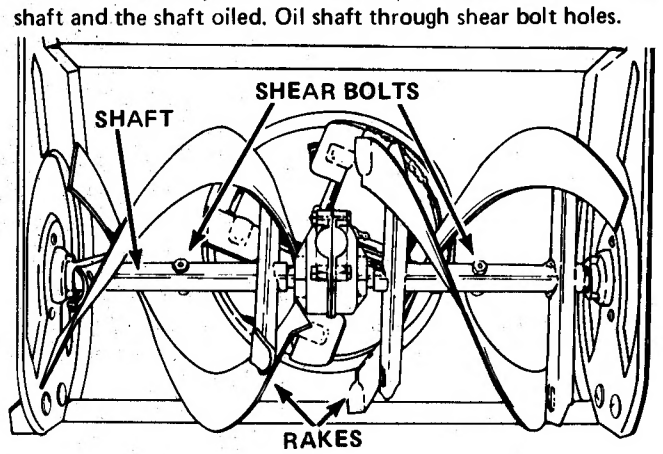


FIGURE 2

RUNNERS

The runners (14) on each side of the blower housing are all adjustable to suit conditions. Raising or lowering the runners controls the distance the scraper is held above the surface being cleared. Runners are adjusted by loosening the two nuts securing each runner. Move the runner to the desired position and retighten the nuts. Be sure to adjust both runners to the same height to keep blower housing level. Uneven runners make the machine difficult to steer and will result in an uneven clearing job.

Adjustment of the runners is critical to good cleaning. If the machine is to be used on a gravel surface; lower the runners so the blower will not pick up gravel then after the remaining snow is packed down, the runners may be raised for close scraping. On smooth concrete or blacktopped surfaces, the runners may be raised so the scraper rests on the surface and scrapes clean.

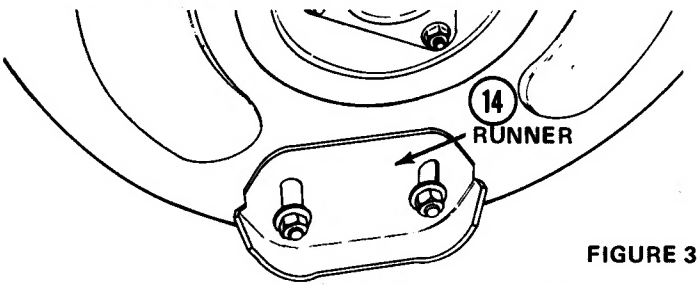


FIGURE 3

BLOWER CLUTCH ADJUSTMENT

The blower clutch is adjusted by connecting the spring on the clutch rod into the proper link on the clutch handle chain. Properly adjusted, the spring should be slightly extended with the clutch handle down. This should occur without the attachment activator lever touching the hub. If the activator lever touches the hub, the blower belt idler pulley must be adjusted in the idler arm. Loosen the cap screw on the idler and move the idler IN TOWARD the belt. Readjust the spring in the chain for proper action.

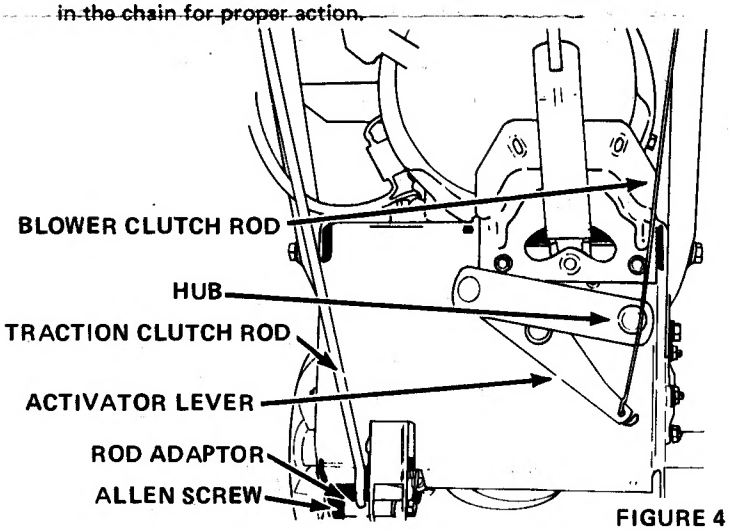


FIGURE 4

DRIVE DISC ADJUSTMENT

The only adjustment for the drive disc is made by adjusting the length of the traction clutch rod. Loosen setscrew in the rod adapter and allow clutch handle to lay down on handle grip. Shift speed selector to third gear. Raise rod adapter bracket until it clears the top of the slot in frame by 1/16" and tighten setscrew.

Check for proper adjustment by removing the bottom cover and measuring the space between the roll pin and bracket on the traction clutch rod. This space must be 3/16" with clutch handle engaged, for proper operation, See Figure 6.

CHUTE CRANK ADJUSTMENT

In the event the chute crank fails to rotate freely, loosen the nut securing the worm clevis to the bracket. This hole in the bracket is slotted to permit adjustment. Position the worm so there is a little clearance between worm and the gear teeth on the blower. Tighten the nut. Rotate the discharge chute through its full travel to see that it turns easily. Readjust if required. Lubricate as described under LUBRICATION for smooth operation.

BELT REPLACEMENT

CAUTION:
SINCE REPLACING THE BELTS WILL INVOLVE TURNING THE ENGINE OVER WITH THE STARTER, THE SPARK PLUG WIRE MUST BE DISCONNECTED DURING THIS PROCEDURE.

The drive belt and the attachment drive belt are both accessible by tipping apart the blower housing and tractor as follows:

1. Remove the nut and lockwashers holding the worm clevis on the bracket. Remove the chute crank by sliding it back in the bracket and out of the way.

2. Remove the two flanged whizlock screws securing the belt guard to the tractor. Remove the belt guard.

3. Remove the top cap screws and loosen the lower cap screws on each side that secures the blower housing to the frame. As the blower housing and tractor are tipped apart, roll the belt off the engine sheave between the sheave and belt finger. This can be easily done by pulling the recoil starter rope to rotate the engine sheave. With the belt disconnected, the blower housing may then be tipped from the frame.

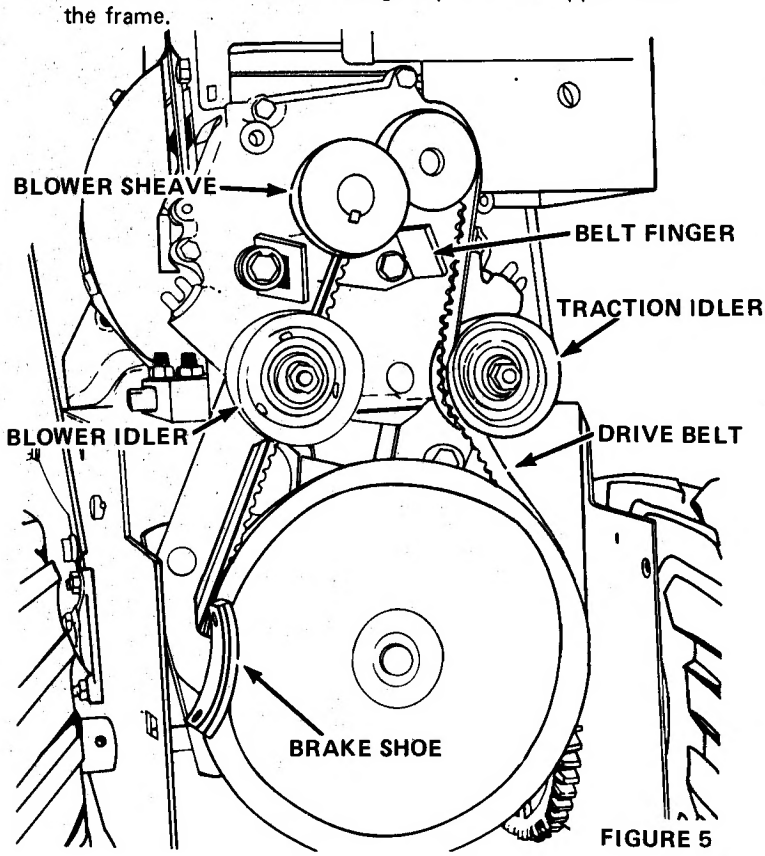


FIGURE 5

REPLACEMENT OF THE BLOWER DRIVE BELT

The blower drive belt remains on the sheave on the blower housing. Place the new belt on the sheave. Hold it in position on the sheave as the blower is tipped into position on the tractor. Be sure the brake shoe seats on the belt as the units are tipped together. Once assembled, roll the blower belt on to the engine sheave and position the idler on the outside of the belt.

REPLACEMENT OF TRACTION DRIVE BELT

With the blower and tractor tipped apart, pull the idler away from the drive belt and remove belt from around the lower sheave and engine sheave. Install the new belt on the engine sheave and lower sheave. Then reposition the idler back into position on the outside of the drive belt.

With the belts in position and the idler in place, check the belt alignment. The engine sheave and the tractor sheave must align with one another. If the sheaves are not properly aligned, loosen the setscrews on the engine sheave and align the sheaves. Retighten the setscrews.

REPLACEMENT OF BLOWER HOUSING

1. Tip the blower and tractor together. Hold the blower drive belt up as the units are tipped together. Be sure the blower brake shoe seats on the blower sheave. Secure with the two cap screws into the frame.

2. Roll the blower belt on to the engine sheave. Pull the recoil starter rope to turn the engine sheave and roll the belt into place under the belt finger.

3. Check the belt finger spacing. There should be 1/8 inch clearance between the belt finger and belt with the blower clutch engaged. Readjust the belt finger if required.

4. Check the sheave alignment with the blower belt in place. Readjust as required to align the sheaves. It may be necessary to tip the blower housing away from the tractor to gain access to the blower sheave.

5. Replace the belt guard and chute crank assemblies. Readjust the chute crank as described in the paragraph above. Replace the spark plug wire.

REPLACEMENT OF FRICTION WHEEL

1. Tip the machine up on the blower housing and brace securely. Remove two cap screws at back of frame securing the bottom cover and loosen two cap screws at front frame sides and remove the cover.

2. Remove the four whizlock nuts holding the bearing flange on the right hand side of the frame. Remove the bearing flange and carriage bolts.

3. Remove the hairpin cotter from the traction clutch rod. Pull this rod from the clutch fork arm and tip it up and out of the way.

4. Slide the friction wheel assembly and hex shaft to the right until the left end of the hex shaft comes free of the left bearing. Then slip the whole assembly back to the left and pull it forward out of the frame.

5. With the friction wheel assembly out of the frame, the three cap screws holding the friction wheel to the hub may be removed and the friction wheel removed.
6. Position a new friction wheel on the hub and secure with the three cap screws. Tighten securely.
7. Slip the right end of the complete friction wheel assembly and hex shaft into the hole in the right side of the frame. Position the friction wheel hub in the forks. Be sure washers are in place on bearing flange pins. Slide the hex shaft to the left and into the left bearing being sure flat washer is in position. See that the pinion gear meshes with the large gear.
8. Replace the bearing flange on the right side of the frame and secure with the four carriage bolts and nuts. Reconnect the traction clutch rod in the clutch fork arm and secure with a hair pin cotter. Readjust the traction clutch as described above.

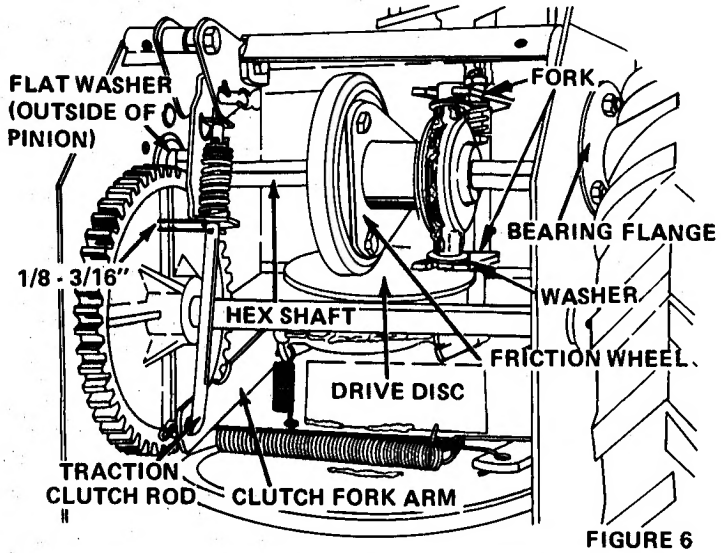


FIGURE 6

LUBRICATION

ENGINE

Fill crankcase (10) with Ariens Sno-Thro oil 5W-20 when using Sno-Thro.

Use Ariens Gard-N-Yard oil MS classification SAE-30 when using lawn attachments.

Refer to engine owners manual for appropriate crankcase oil substitutes.

Fill fuel tank (11) with fresh, clean unleaded automotive gasoline. (Leaded "regular" grade gasoline is an acceptable substitute.)

NOTE: For detailed instructions on engine refer to manufacturer's booklet packed with the machine.

TRACTOR DRIVE

At the start of season, grease hex shaft as indicated in Figure 7. Use Ariens Moly Lithium grease.

Put two or three drops of light oil on shift lever and other linkage points. *CAUTION: Do not allow grease or oil to come in contact with friction wheel, drive disc or belts.*

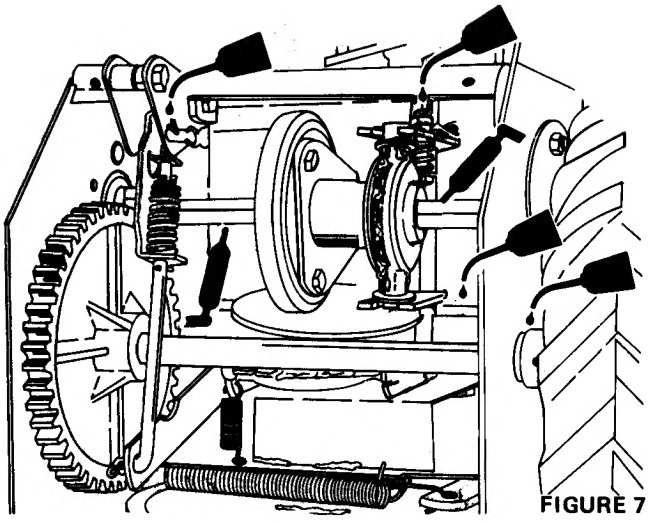


FIGURE 7

SNO-THRO UNIT

The blower gear case is lubricated with Ariens Liquid Grease (Part No. 000070). This grease will not flow at lower temperatures. It is therefore difficult to check the lubricant level. Best method for checking is to place the unit in a warm location overnight. This allows the grease to flow to level. Check the lubrication by removing the filler plug on the side of the gear case just above the left auger shaft. Lubrication should be even with the hole with the machine sitting level. It may be necessary to insert a wire into the hole to check level. The unit will not be damaged by over lubricating.

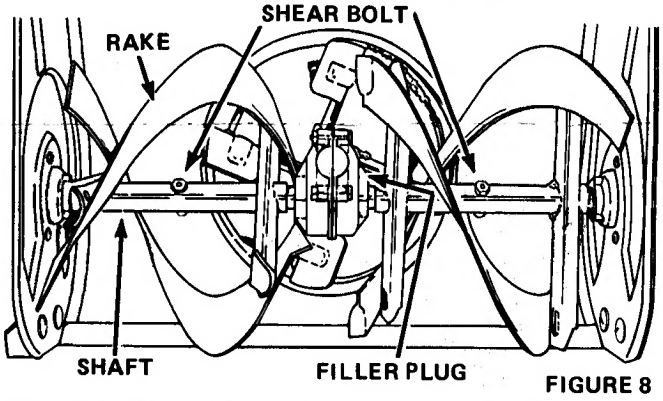


FIGURE 8

Oil rake shaft periodically or each time a shear bolt is replaced. At the end of the season, remove shear bolts, oil rake shaft through shear bolt holes, turn rakes on shaft several times and replace shear bolts.

Oil the discharge chute with several drops of heavy oil.

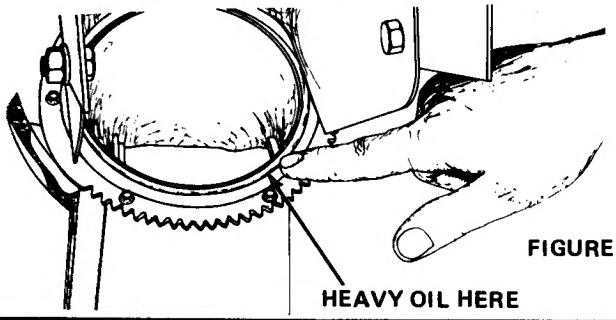


FIGURE 9

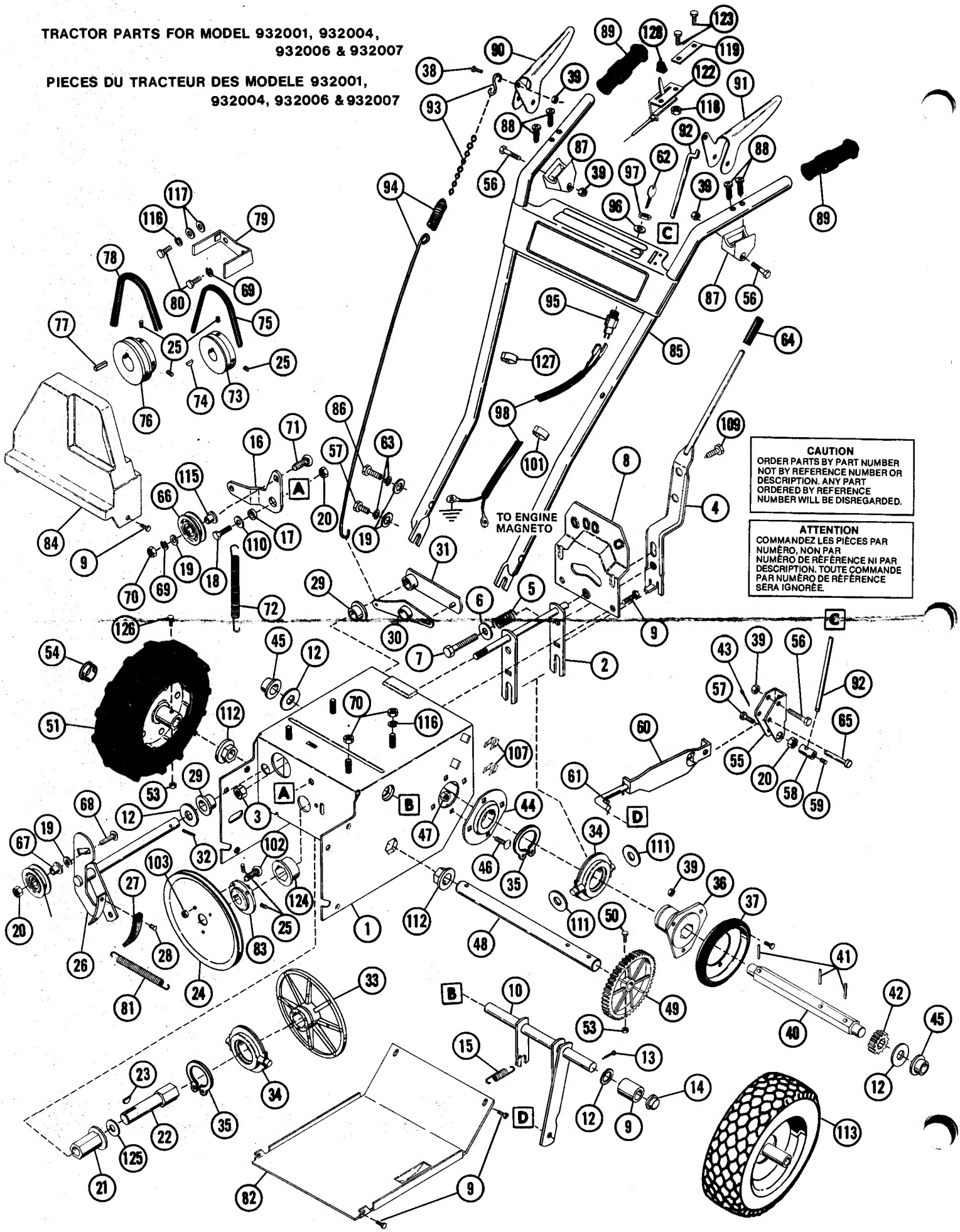
STORAGE

ENGINE – Follow detail instructions in the Engine Manual.

SNO-THRO – Lubricate, clean and repaint as necessary. Cover and store in dry place.

TRACTOR PARTS FOR MODEL 932001, 932004, 932006 & 932007

PIECES DU TRACTEUR DES MODELE 932001, 932004, 932006 & 932007



TRACTOR PARTS FOR MODEL 932001, 932004, 932006 & 932007
PIECES DU TRACTEUR DES MODELE 932001, 932004, 932006 & 932007

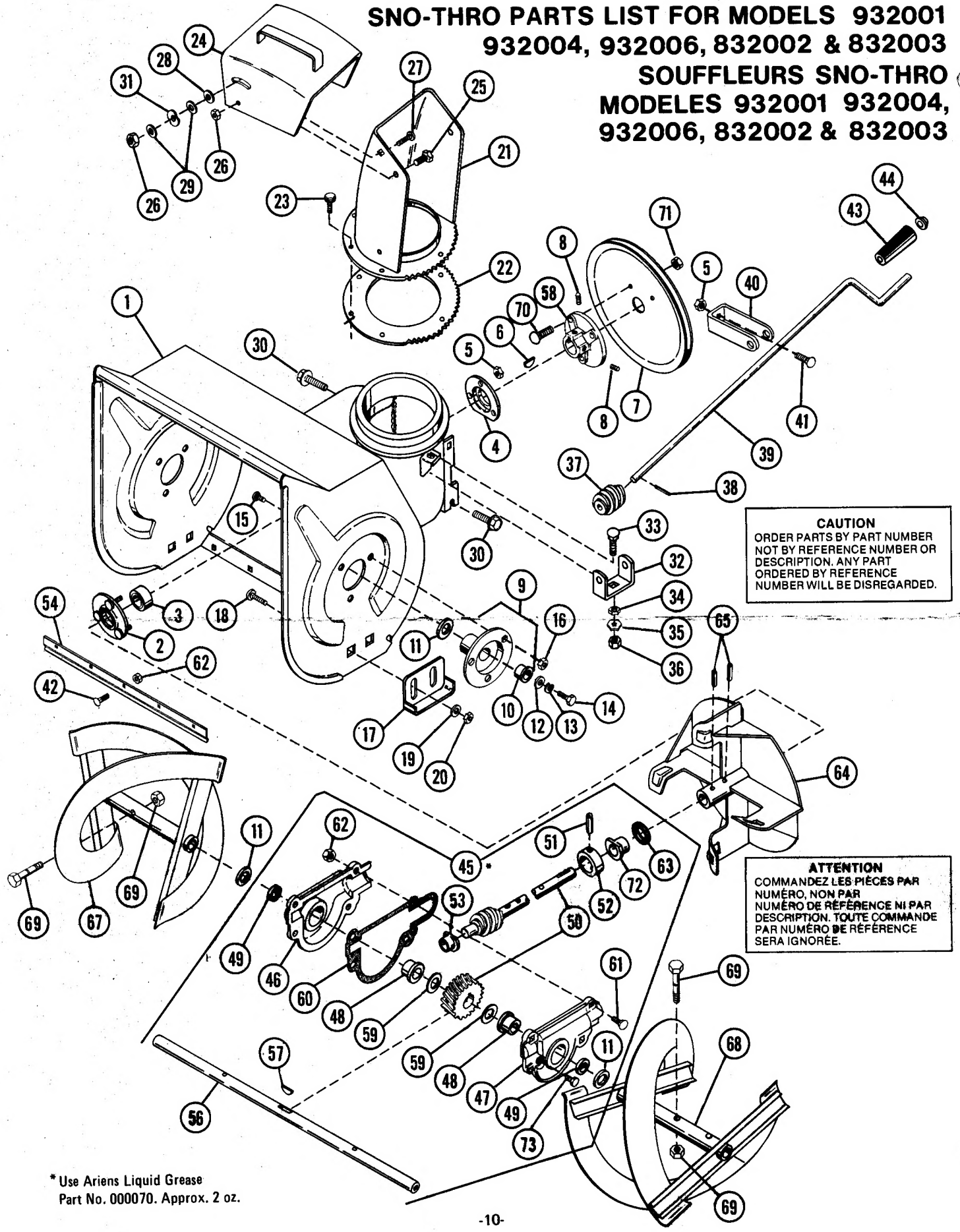
NoDE REF. NO.	NO DE PIECE PART NO.	CODE D'INV STOCK CODE	DESCRIPTION	QUANTITÉ NO. REQ'D 932001	932004	932006	932007
1	032070		FRAME	1	1	1	
2	032002		SHIFT FORK	1	1	1	
3	065039		LOCKNUT	1	1	1	
4	032071		SHIFT HANDLE	1	1	1	
5	083090		SPRING	1	1	1	
6	064123		WASHER, 5/16 Std. x 11/16 x .065	1	1	1	
7	059045		CAP SCREW, 5/16 - 18 x 1-1/2 GR	1	1	1	
8	032004		QUADRANT	1	1		
	032079		QUAORANT (5 H.P.)			1	
9	074015		TAPTITE	8	8	8	
10	032005		CLUTCH FORK	1	1	1	
11	002111		SPACER	1	1	1	
12	064003		WASHER, 1/2 Std. x 1-1/16 x .095	2	2	2	
13	067004		COTTER PIN, 1/8 x 1	1	1	1	
14	012086		CAP	1	1	1	
15	083141		SPRING EXTENSION	1	1	1	
16	032069		IOLER ARM	1	1	1	
17	010358		SPACER 8USHING	1	1	1	
18	059002		CAP SCREW, 5/16-18 x 5/8 GR	1	1	1	
19	064002		WASHER, 5/16 Std. x 7/8 x .083	6	6	6	
20	065042		LOCKNUT	3	3	3	
21	055120		FLANGE 8USHING, Long,	1	1	1	
22	032007		HEX SHAFT	1	1	1	
23	066003		KEY, Woodruff 3/16 x 3/4	1	1	1	
24	073074		SHEAVE	1	1	1	
25	060011		SETSCREW	6	6	6	
26	632001		8RAKE CLUTCH ARM	1	1	1	
27	022178		8RAKE LINING	1	1	1	
28	068062		RIVET OVAL, 3/16 x 7/16	2	2	2	
29	055037		FLANGE 8USHING	2	2	2	
30	032009		LEVER	1	1	1	
~~31~~	~~032010~~		~~LEVER CLUTCH~~	~~1~~	~~1~~	~~1~~	
32	058026		PIN ROLL, 5/32 x 7/8	1	1	1	
33	032011		FRICTION PLATE	1	1	1	
34	032012		8EARING FLANGE	2	2	2	
35	057043		SNAP RING EXTENSION	2	2	2	
36	032072		FRICTION WHEEL HU8	1	1	1	
37	022013		FRICTION OISC	1	1	1	
38	059028		CAP SCREW, 1/4-20 x 1/2 .	4	4	4	
39	065040		LOCKNUT	7	7	7	
40	032073		HEX SHAFT	1	1	1	
41	058047		ROLL PIN, 1/8 x 7/8	3	3	2	
42	022011		PINION	1	1	1	
43	067001		COTTER PIN, 3/32 x 3/4	1	1	1	
44	032014		BUSHING FLANGE	1	1	1	
45	055110		FLANGEO 8USHING	1	1	1	
46	062049		CARRIAGE BOLT	8	8	8	
47	065094		TWIN WHIZLOCK NUT	8	8	8	
48	032088		AXLE SHAFT	1	1	1	
49	032090		GEAR ZYTEL	1	1	1	
50	059191		CAPSCREW, ¼-20x1¾ GR. 8	1	1	1	
51	071125		R.H. WHEEL ASSEM8LY	1	–	–	
52	071126		L.H. WHEEL ASSEM8LY	1	–	–	
53	065070		LOCKNUT. ¼-20 GR. C	3	3	3	
54	075087		HOLE PLUG	2	2	2	
55	032017		8RACKET	1	1	1	
56	059062		CAP SCREW, 1/4-20 x 1-3/4	3	3	3	
57	059022		CAP SCREW, 5/16-18 x 3/4	3	3	3	
58	022135		ROD AOAPTER	1	1	1	
59	060012		SETSCREW	1	1	1	
60	632027		TRACTION CLUTCH ASS'Y.	1	1	1	
61	067020		HAIR PIN, 3/32 x 1-3/16	1	1	1	
62	013157		KEY(set)	1	1	1	
63	063001		LOCKWASHER	4	4	4	
64	075086		GRIP	1	1	1	
65	002813		CLEVIS PIN	1	1	1	
66	012132		IDLER	1	1	1	
67	012131		BEARING SPACER	1	1	1	
68	062048		CARRIAGE BOLT	1	1	1	
69	063003		LOCKWASHER	2	2	2	
70	065015		NUT	5	5	5	
71	062048		CARRIAGE BOLT	1	1	1	
72	083172		EXTENSION, Spring	1	1	1	
73	032018		SHEAVE CAMSHAFT	1	1	1	
74	066015		KEY, Woodruff 1/8 x 5/8	1	1	1	
75	072106		V BELT	1	1	1	
76	032077		ENGINE SHEAVE	1	1	1	
77	066013		KEY, Straight 3/16 x 3/16 x 1	1	1	1	
78	072114		V 8ELT	1	1	1	
79	032092		BELT FINGER	1	1	1	
80	059053		CAP SCREW, 5/16-24 x 3/4	2	2	2	
81	083171		SPRING, Extension	1	1	1	
82	032091		8OTTOM COVER	1	1	1	
83	032050		HU8	1	1	1	
84	032093		8ELT COVER	1	1	1	
85	032085		HANOLE 8AR			1	
85	032074		HANOLE 8AR	1	1		
86	059069		CAP SCREW, 5/16-18 x 1-1/4	2	2	2	
87	022129		HANOLE PIVOT	2	2	2	
88	074039		TAPPING SCREW	4	4	4	
89	075081		GRIP	2	2	2	
90	532008		HANOLE	1	1	1	
91	532007		HANOLE	1	1	1	
92	032026		CLUTCH ROO	1	1	1	
93	002042		CHAIN & CONNECTOR	1	1	1	
94	083008		CLUTCH SPRING	1	1	1	
95	011134		KEY, Switch	1	1	1	
96	063019		LOCKWASHER	1	1	1	
97	065075		NUT	1	1	1	
98	022161		SHORTING WIRE	1	1	1	
~~100~~	~~075086~~		~~GRIP, 5/16 x 2-3/4~~	~~1~~	~~1~~	~~1~~	
101	069119		CONOUIT CLAMP WIRE			1	
101	069099		CONOUIT CLAMP WIRE	1	1		
102	070053		RI88EO NECK 8OLT, 5/16-18 x 3/4	3	3	3	
103	065078		FLANGE WHIZLOCK NUT	3	3	3	
107	070057		RETAINER & NUT	4	4	4	
109	074054		TAPTITE	1	1	1	
110	064128		WASHER, .338/.358 x 1-3/8 x 14GA	1	1	1	
111	064058		WASHER, .550/.505 x 1 x .062	2	2	2	
112	055123		FLANGE 8USHING	2	2	2	
113	632026		WHEEL ASSEM8LY,		2	2	
			Consists of the following:				
	071085		TU8E				
	071016		TIRE				
	071124		RIM & HUB				
115	013059		SHOULDER SPACER	1	1	1	
116	063001		LOCKWASHER	4	4	4	
117	064044		WASHER, .312/.343 x 7/8 x 7	2	2	2	
118	085051		KEPS NUT			2	
119	069120		THROTTLE PLATE	–	–	1	
122	069119		THROTTLE CONTROL	–	–	1	
123	061012		MACHINE SCREW, No. 10-24 x 1/2	–	–	2	
124	055121		8USHING	1	1	1	
125	064173		WASHER	1	1	1	
126	059150		CAPSCREW, ¼-20x1½	2	2	2	
127	069119		CLAMP			1	
128	075019		KNO8	1	1	1	
			ENGINE, 5 H.P.				
			TEC. HS50 - 670088				1
			ENGINE, 3.5 H.P.				
			TEC. H35 - 45515K		1		
			ENGINE				
			2.7 H.P. TEC. H35 - 45503M	1			

SUGGESTED PARTS STOCKING CODE
F – FAST
M – MEDIUM
S – SLOW
O – CUSTOMER ORDER ONLY

CODE SUGGÉRÉ D'INVENTAIRE DES PIÉCES
F – FAST (rapide)
M – MEDIUM (moyen)
S – SLOW (lent)
O – Commande du client seulement

SNO-THRO PARTS LIST FOR MODELS 932001 932004, 932006, 832002 & 832003

SOUFFLEURS SNO-THRO MODELES 932001 932004, 932006, 832002 & 832003



CAUTION
ORDER PARTS BY PART NUMBER NOT BY REFERENCE NUMBER OR DESCRIPTION. ANY PART ORDERED BY REFERENCE NUMBER WILL BE DISREGARDED.

ATTENTION
COMMANDEZ LES PIÈCES PAR NUMÉRO, NON PAR NUMÉRO DE RÉFÉRENCE NI PAR DESCRIPTION. TOUTE COMMANDE PAR NUMÉRO DE RÉFÉRENCE SERA IGNORÉE.

* Use Ariens Liquid Grease
Part No. 000070. Approx. 2 oz.

SNO-THRO PARTS LIST FOR MODELS 932001, 832002, 832003,932004 & 932006
SOUFFLEURS SNO-THRO MODELES 932001, 832002, 832003,932004 & 932006

NoDE REF. NO.	NO DE PIECE PART NO.	CODE D'INV STOCK CODE	DESCRIPTION	QUANTITÉ NO. REQ'D 932001 932004 832002	QUANTITÉ NO. REQ'D 932006 832003
1	532010		BLOWER HOUSING		1
1	532003		BLOWER HOUSING	1	
2	010142		BEARING FLANGE	1	1
3	054063		RADIAL BEARING	1	1
4	003017		BEARING FLANGE	1	1
5	065040		LOCKNUT	4	4
6	066001		KEY,Woodruff 3/16x7/8	1	1
7	073103		SHEAVE	1	1
8	060005		SET SCREW	2	2
9	632014		BEARING FLANGE W/BUSHING	2	2
10	055113		FLANGEO BUSHING	2	2
11	064009		WASHER,3/4x1-3/8x.134	4	4
12	064128		WASHER,.338/.358x1-3/8x14	2	2
13	063003		LOCKWASHER	2	2
14	059002		CAPSCREW,5/16-18x5/8	2	2
15	070058		RIBBED NECK BOLT	6	6
16	065056		FLANGE WHIZLOCK NUT	6	6
17	010165		RUNNER	2	2
18	062010		CARRIAGE BOLT,3/8-16x3/4	4	4
19	064002		WASHER,5/16x7/8x.083	4	4
20	065039		LOCKNUT	4	4
21	022159		CHUTE,Oischarge	1	1
22	022160		GEAR LOWER COLLAR	1	1
23	074034		SELF-TAPPING SCREW	6	6
24	522006		OEFLECTOR CHUTE	1	1
25	059039		CAPSCREW,5/16-18x½	2	2
26	065042		LOCKNUT	3	3
27	062034		CARRIAGE BOLT,5/16-18x¾	1	1
28	064168		WASHER,5/16x7/8x1/16 NYLON	1	1
29	064057		WASHER,.312/.343x.625x.062	2	2
30	070009		FLANGE WHIZLOCK SCREW	4	4
31	013202		WAVE WASHER	1	1
32	022123		WORM CLEVIS	1	1
33	062011		CARRIAGE BOLT,5/16-18x¾	1	1
34	063032		LOCKWASHER	1	1
35	063023		LOCKWASHER	1	1
36	065015		NUT	1	1
37	022110		WORM GEAR	1	1
38	058034		ROLLPIN,1/8x3/4	1	1
39	022081		CHUTE CONTROL CRANK	1	1
40	532004		BRACKET	1	1
41	062001		CARRIAGE BOLT,¼-20x1¼	1	1
42	062053		CARRIAGE BOLT,¼-20x½	5	5
43	075039		GRIP	1	1
44	010198		CAP	1	1
45	532002		GEAR CASE ASSEMBLY	1	
	532011		GEAR CASE ASSEMBLY		1
46	032032		RH GEAR CASE	1	1
47	032033		LH GEAR CASE	1	1
48	055112		FLANGED BUSHING	2	2
49	056043		SEAL	2	2
50	532001		FAN SHAFT & WORM GEAR	1	1
51	058003		ROLL PIN,3/16x1¼	1	1
52	032035		THRUST COLLAR	1	1
53	055111		FLANGEO BUSHING	1	1
54	032081		SCRAPER BLADE		1
	032067		SCRAPER BLADE	1	
55	056047		"O" RING	1	1
56	032036		RAKE SHAFT	1	
	032082		RAKE		1
57	066014		KEY,Woodruff 3/16x5/8	1	1
58	002862		HUB	1	1
59	064161		WASHER,.752/.762x1.24x.0615	2	2
60	032038		GASKET	1	1
61	062012		CARRIAGE BOLT,¼-20x¾	4	4
62	065056		FLANGE WHIZLOCK NUT	9	9
64	032040		FAN	1	1
65	058007		ROLL PIN,¼x1¼	2	2
67	032041		RIGHT RAKE	1	
67	032083		RIGHT RAKE		1
68	032084		LEFT RAKE		1
68	032042		LEFT RAKE	1	
69	532005		SHEAR BOLT & NUT	2	2
70	070053		RIBBED NECK BOLT 5/16-18x¾	3	3
71	065078		FLANGE WHIZLOCK NUT	3	3
72	054112		FLANGE BUSHING	1	1
73	070010		FLANGE WHIZLOCK SCREW,3/8-16x½	1	1

SUGGESTED PARTS STOCKING CODE
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CODE SUGGÉRÉ D'INVENTAIRE DES PIÉCES
F – FAST (rapide) S – SLOW (lent)
M – MEDIUM (moyen) O – Commande du client seulement

DEALER SET UP AND PRE-SERVICE

1. GENERAL

The unit is shipped with tractor and snow head assembled. The handlebars are assembled but must be installed on the tractor and the clutch rods and chute crank installed.

2. HANDLEBAR INSTALLATION

The handlebars are attached to the holes in the side of the frame. Install a 59022 cap screw (3/4" long), a 64123 flat washer and 63003 lockwasher in the lower hole on each side of the frame. Do not tighten. The end of the handlebars are slotted. Slip these slotted ends over the cap screws just installed. Position the handlebars under the flat washer. Insert a 59069 cap screw (1-1/4" long), 64123 Washer and 63003 lockwasher through each of the upper holes in the handlebars. Hold the handlebars up in a comfortable position and tighten all hardware.

3. THROTTLE CONTROL

Models 932001 and 932004 have the throttle controls located on the engine. Models 932006 and 932007 have the throttle control installed on the handlebar panel. Run the throttle cable along the inside of the left handlebar and up under the heater box. Connect the bent end of the wire to the throttle arm of the carburetor. Place the throttle in the fast position, push the throttle arm up, and clamp the cable with the screw and clamp on the engine. Check by moving the throttle back and forth. Throttle arm should move top to bottom of travel. Install 69099 clamp to secure throttle cable to handlebars.

4. WIRING HARNESS

The wiring harness is supplied attached to the engine. Run this harness from the engine, up the left handlebar, to the key switch. Connect wire to terminals on the key switch. Secure the wiring harness to the left handlebar with throttle control clamp (69099).

5. TRACTION CLUTCH ROD

The traction clutch rod is shipped loose in the carton. To install the rod, place the speed selector in third speed; Insert the bent end of the clutch rod into the hole in the clutch handle on the left handlebar. Insert the straight end of the clutch rod into the hole in the rod adapter in the clutch bracket at the left rear of the frame. Hold the clutch handle all the way down; raise the clutch bracket up to 1/16 inch of the frame; now tighten the rod in place with the setscrew in the rod adapter.

This adjustment can be checked by removing the bottom cover. With the clutch handle fully depressed the clearance between the roll pin and the bracket should be 3/16 inch. See Figure 11. Loosen the setscrew and readjust if required.

6. BLOWER CLUTCH ROD

Install the blower clutch rod by hooking the end of the clutch rod up through the hole in the blower clutch lever on the right rear of the frame, see Figure 12. Connect the spring end of the clutch rod to a link in the chain on the handle. Select a link that will allow the spring to extend slightly when the clutch handle is fully depressed.

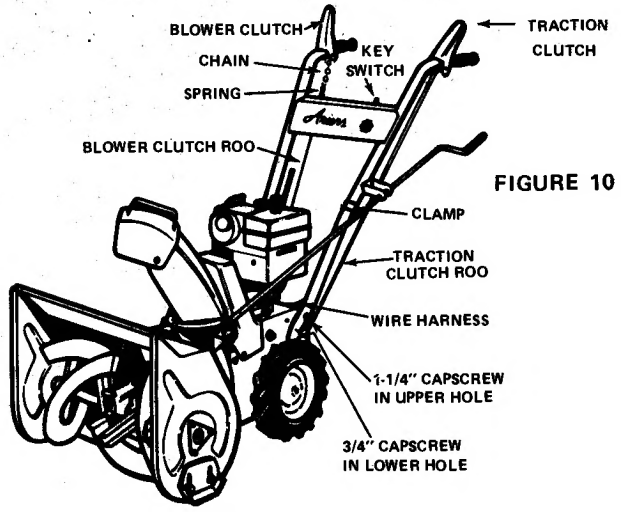

FIGURE 10

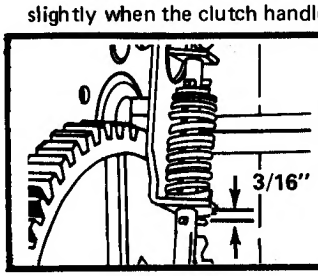

FIGURE 11

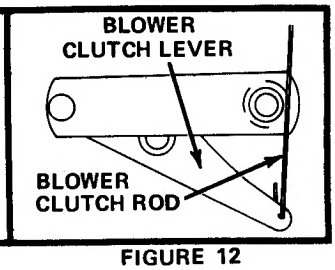

FIGURE 12

7. CHUTE CONTROL CRANK

The chute control crank is shipped fully assembled and in place in the bracket. Install as follows: Bolt the crank clamp in place on the left handlebar. See Figure 1.

Position the worm clevis on the bracket on the blower housing. Place external tooth lockwasher between worm clevis and bracket. Adjust in slot so that there is a little clearance between worm and gear teeth on blower collar. Secure the worm clevis with the carriage bolt (already in place on the clevis). Use a lockwasher (63023) and a 5/16-18 nut (65015) under the bracket. See Figures 1 and 2.

Rotate the discharge chute through its full travel to see that it turns easily. Readjust the position of the worm clevis, if required.

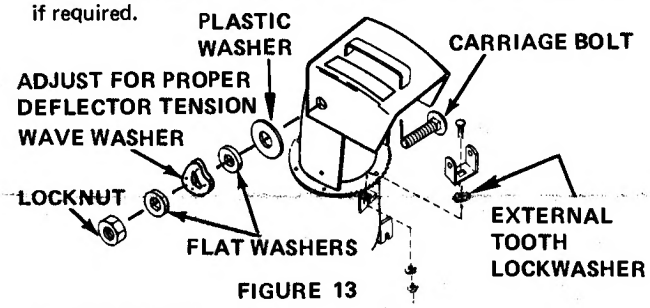

FIGURE 13

8. DEFLECTOR

The deflector is shipped in place on the discharge chute but must be raised into operating position. Remove the locking hardware from the discharge chute. Raise the deflector up into position. Re-install the hardware as shown on Figure 13. Adjust the nut to apply sufficient tension so the deflector can be easily moved by hand but will still hold position when blowing snow.

9. BLOWER GEAR CASE

The blower gear case is factory lubricated and should require no lubrication by the dealer. Full instructions for checking are given in the LUBRICATION section of this manual, Page 7.

10. ENGINE

Before starting engine, fill the crankcase with Ariens Sno-Thro oil 5W-20 for snow blower operation below 40° F. Use Ariens Gard-N-Oil 10W-30 for operation above 40° F. Refer to Engine Owners Manual for appropriate substitutes.

11. TIRE PRESSURE

Models 932004, 932006 and 932007 are equipped with pneumatic tires that have been over inflated for shipping purposes. Reduce pressure to 12 to 20 PSI before operating. Tire pressure of 20 PSI is recommended for use with tire chains.

DEALER MUST MAKE SURE ALL SAFETY DEVICES AND GUARDS ARE IN POSITION AND OPERATING PROPERLY. DEALER MUST INSTRUCT THE CUSTOMER ON SAFETY PRECAUTIONS, OPERATING, CARE AND MAINTENANCE. FILL OUT PREWARRANTY REGISTRATION AND MAIL TO ARIENS COMPANY.